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En 862  
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UNITED STATES DEPARTMENT OF AGRICULTURE  
Agricultural Research Administration  
Bureau of Entomology and Plant Quarantine  
Washington 25, D. C.

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CURRENT SERIAL RECORD

JUL 2 - 1947

U. S. DEPARTMENT OF AGRICULTURE

May 5, 1947

Summarized in the attached statement and tabulation are the results of the trap-scouting performed during the summer of 1946 to develop information on the distribution and degree of infestation of the Japanese beetle in localities outside the area regulated by Federal quarantine. Listed in the tabulation are all localities outside the regulated area where trap-scouting was carried on with positive results during the seasons 1937 to 1946, inclusive, with the respective trap collections; together with a list of localities where soil treatments have been applied at isolated infestations from 1944 to date.

Soil treating programs in 1946 largely paralleled in scope those of the previous year. Acreages completed, plus additional locations treated in Falconer, N. Y., and Archdale and High Point, N. C. in the spring of 1947, total 537.95 acres. These treatments were carried out with the cooperation of the interested States and municipalities. They are attempts to eradicate outlying incipient infestations or, if eradication is impracticable, to suppress the infestations so that they do not become new centers of spread.

Heretofore the standard soil treatment has comprised the application of lead arsenate at a dosage of 500 pounds per acre. This year DDT at the rate of 25 pounds per acre was approved as an equivalent of the larger dosage of lead arsenate. DDT was used in the soil treatments applied at Newark and Williamson, N. Y.; Calypso, Dunn and Mount Olive, N. C.; and for part of the acreages treated at Dahlonaga, Ga.; St. Louis, Mo.; and Crozet, Va. Of the total acreage treated or scheduled for treatment as a result of 1946 catches, 217 acres or 40% of the total will receive DDT application. Material costs per acre during the past year approximated \$100.00 for lead arsenate compared to \$20 for the greatly reduced dosage of DDT.

Treatment is recommended within a radius of 300 feet of all collections of female beetles or multiple finds of either sex. Usually treatment is not applied in sections where solitary male beetles are captured, such areas being reserved for trapping the following season more accurately to determine the conditions of infestation.

Suppressive measures already applied or assured for the spring of 1947 in localities outside the regulated area, together with State quarantine action in certain outlying areas, will, in most instances, assure protection from spread at least comparable with that afforded if the Federal quarantine were extended. Immediate additions to the area regulated under the Federal Japanese beetle quarantine as a result of the season's trapping and survey records,



therefore, will probably be limited to the election district of Mechanicsville (No. 5), St. Marys County, Md.; town of Schroepel, Oswego County, and town of Waterloo, Seneca County, N. Y.; township of Marietta, Washington County, Ohio; district of Midlothian, Chesterfield County, Va.; and the districts of Gerards-town and Mill Creek, Berkeley County; districts of Blue Sulphur and Fort Spring, Greenbrier County; district of Wolf Creek, Monroe County; all of Morgan County; districts of Greenbrier and Talcott, Summers County; and districts of Parkersburg and Williams, Wood County, W. Va.

The necessity of holding a hearing or conference to consider the extension of the regulated area or modification of the regulations, prior to a revision of the quarantine regulations, can be avoided. It is expected that a revision of the regulations will be issued in the near future.

The accompanying report is similar to any report on current conditions that might be presented at a public conference. It is issued to make available to State plant quarantine officials and other interested parties the latest information on the distribution and status of the Japanese beetle in areas not now included under Federal quarantine and to acquaint them with the proposed revision of the regulations.

P. N. Annand  
Chief of Bureau

#### Attachments



REPORT OF RESULTS OF JAPANESE BEETLE TRAPPING  
AND CONTROL OPERATIONS DURING 1946

Fewer first-record collections of beetles were determined during 1946 than in any year since 1943. Beetles were collected for the first time in 23 communities, but at only one of these locations was the discovery of special significance.

In 1946 beetles were collected in 82 communities where they were found in 1945. This compares with 61 localities in the 1944 and 1945 seasons. However, this apparent carry-over of beetles is significant in only 23 cities and towns, as compared to 28 persisting infestations of importance in 1945.

This year's trapping program involved the use of 44,250 traps in 671 localities scattered throughout 40 States.

State-Federal cooperative soil treatments of important isolated infestations were continued by the States of Georgia, Illinois, Indiana, Michigan, Missouri, New York, North Carolina, Ohio and Virginia. These again involved the application of lead arsenate at the rate of 500 pounds per acre within a radius of approximately 300 feet of significant beetle finds. Fifty percent wettable DDT was applied at the rate of 25 pounds per acre in place of lead arsenate in New York and North Carolina and parts of the areas in Georgia, Missouri and Virginia. A few of the infestations were of such an extent that soil treating was not considered practicable. Quarantine action is contemplated in these instances.

Four beetles were collected in traps at two airfields in Florida. Three beetles were from the 20th and 36th Streets airport in Miami, and one at the Eglin Army airfield near Valpariso. Both of these finds are first records, although beetles have been collected in Miami in 1940 (2 beetles) and 1942 (1 beetle).

Soil treatment was completed in September at Dahlonga, Ga., where 245 beetles were collected. Four acres were treated with lead arsenate and 7.7 with 50% DDT. The other captures in the State were Atlanta, 17 beetles; Augusta, 3; and Austell, 2. It is planned to apply a DDT insecticide with a blower during the period of beetle flight in 1947 to the sections of Atlanta where beetles were collected.

The number of beetles trapped in Chicago, Ill. during 1946 was within one of the 1945 collection, 165 beetles being caught. Cooperative soil treatment using lead arsenate during the fall covered 61.6 acres. In Highland Park where 22 beetles were trapped, 10.3 acres were treated. The only other beetle captured in Illinois was in Lake Forest, a first record.

Two cities in Indiana applied lead arsenate soil treatment. Elkhart, where 25 beetles were collected, treated 15.35 acres and Indianapolis with 13 beetles treated 6 acres. The other finds in Indiana were Richmond 2 beetles, Hammond 1, Terre Haute 1, and Whiting 1.

A solitary beetle was trapped in Fort Madison, Iowa. One other beetle was caught there in 1938, but none was collected in 1939.



Beetles were collected at two localities in Maryland outside the regulated area. Ninety-two beetles were trapped at Mechanicsville and one at Oakland. Quarantine action is contemplated at Mechanicsville.

All localities in Michigan where beetles were collected, except Muskegon with one beetle, were treated with lead arsenate. Acreage treated in Detroit (12 beetles) 32.05, Grand Rapids (92 beetles) 77.65, Kalamazoo (10 beetles) 30.2, Melvindale (1 beetle) 2, River Rouge (15 beetles) 22.8, and Wyandotte, a first record, (1 beetle) 6 acres.

The number of beetles trapped in St. Louis, Mo. was 51 as compared with 7 in 1945. One beetle was collected at Bridgeton (St. Louis-Lambert Field). Lead arsenate and DDT were applied to 18.1 and 18.95 acres, respectively, in St. Louis, and lead arsenate to 0.9 acre at the St. Louis-Lambert Field.

A few beetles each were found at Bath, Hammondsport, Mexico, Niagara Falls, North Tonawanda, Plattsburg and Rouses Point, New York. Soil treatment using DDT was applied at Newark (16 beetles) 5.5 acres, and Williamson (17 beetles) 9.3 acres. Some 7 acres in Falconer where 93 beetles were trapped is to be treated with DDT during the spring of 1947. Phoenix with 325 beetles and Waterloo with 219 beetles, including Border City, which is generally infested, will be placed under Federal quarantine.

Of the 27 localities in North Carolina where beetles were trapped, soil treatments using DDT have been applied in three towns, Dunn (293 beetles) 40.2 acres, Calypso (929 beetles) 35.3 acres, and Mt. Olive (51 beetles) 23 acres. High Point (168 beetles) and Archdale (38 beetles) are to be treated with DDT during the spring of 1947, covering approximately 57 and 12 acres, respectively. Ten beetles were trapped at Fletcher for a first-record. At Blowing Rock the traps collected 22,235 beetles, about 50% of last year's catch. The Hendersonville area is under state quarantine and it is planned to apply a DDT insecticide with a blower in that section during the period of beetle flight in 1947. Similar treatment will also be applied at the Wilmington airport and the Calypso-Mt. Olive-Dunn area. In the other 17 localities in the State the number of beetles collected were from 1 to 12 beetles each. These locations will be rechecked during the 1947 season.

The number of beetles trapped in Ohio showed a considerable decrease from 1945 reports. In Painesville with 32 beetles, 20.6 acres were treated with lead arsenate. The township of Marietta, Washington County, has a light infestation and will be included under Federal quarantine. The 11 beetles in Belpre were trapped in treated area. In Geneva, Hamilton, Bucyrus, Kinsman and Maumee, 7,2,1,1,1 beetles were trapped respectively, the last two being first records.

One beetle was caught at the Charleston, S. C. municipal airport. Six were trapped in Greenville and a first record find of six at the Greenville Army Airbase.

A single beetle was trapped at the Nashville, Tenn. Airport, a first record for this field. Two beetles were collected from the traps in Mountain City.



Virginia trapping resulted in 11 first records, most of them just south of the regulated area: Amherst 2 beetles, Barboursville 2, Bowling Green 2, Broadway 8, Crozet 9, Gordonville 5, Lovington 5, Madison 10, Marion 2, Port Royal 5 and Yorktown 4. Soil treatment using lead arsenate was applied in Covington covering 9.2 acres and in Crozet covering 4 acres with lead arsenate and 1.25 acres with DDT. In 8 other towns 1 to 9 beetles were trapped. Midlothian district, Chesterfield County, is generally infested and will be placed under Federal quarantine.

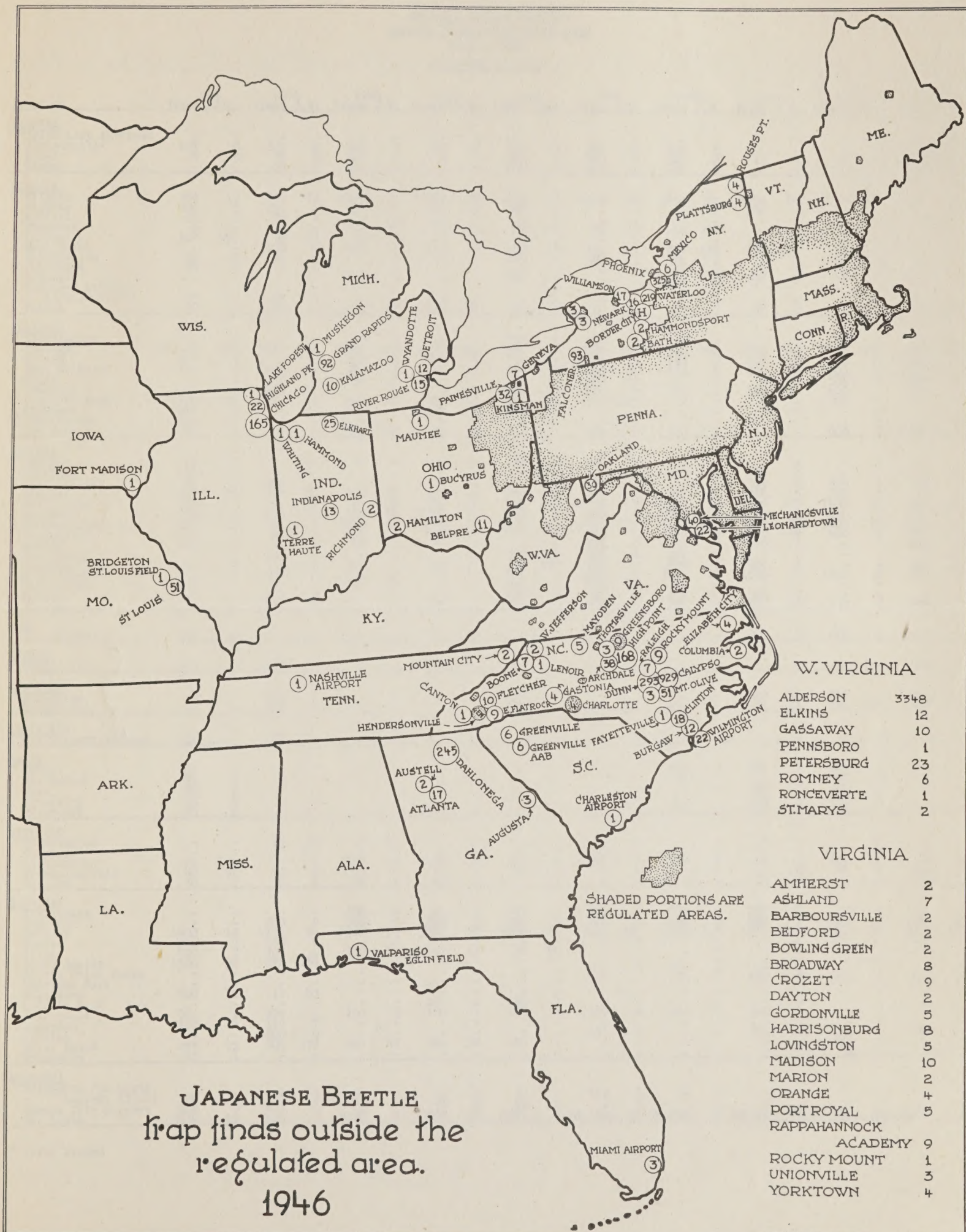
Most important of the 8 infestations in West Virginia was that at Alderson where over 3300 beetles were collected. Alderson, along with Petersburg 23 beetles, Romney 6 beetles and Ronceverte 1 beetle were first records. Other beetle collections were Elkins 12, Gassaway 10, Pennsboro 1, and St. Marys 2. Considerable territory has already been placed under State quarantine as a result of these finds. Federal quarantine extension will parallel that of the state.

Trapping was performed at 152 airfields in 36 States. Fifty of these fields in 20 States were trapped in connection with our regular program. A co-operative program with other Bureau divisional field stations included the operation of traps at 18 airfields in 9 States. Forty-four airfields in 9 States were trapped by cooperating State plant pest officials. Under a special Army program, 93 units of 8 traps each were forwarded to various Army airfields. Reports indicate that traps were set on 40 Army airfields in 17 States. Beetles were collected at only 7 of the airfields trapped, six of these in the Southern States and one in the mid-West. Solitary beetles were trapped at St. Louis-Lambert Field, Mo.; Eglin Army Airfield, Valpariso, Fla.; Charleston (S. C.) Municipal Airport, and Nashville (Tenn.) Airport. Trapping at a Miami (Fla.) Airport resulted in the collection of three beetles. Six beetles were captured at the Greenville (S. C.) Army Air Base, and 22 beetles were trapped at the Wilmington (N. C.) Airport. This was the first time beetles had been trapped at Eglin Army Airfield, Valpariso, Fla., Wilmington, N. C. and Nashville, Tenn. airports, and Greenville, S. C. Army Airbase.















JAPANESE BEETLE TRAPPING  
OUTSIDE PRESENT REGULATED AREA  
1937 - 1946

POSITIVE RESULTS

Location	1946		1945		1944		1943		1942		1941		1940		1939		1938		1937	
	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.
FLORIDA																				
Edlin Army Airfield	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jacksonville	285	0	875	0	625	5	12	0	295	1	600	0	600	5	-	-	-	-	792	0
Miami	24	3	24	0	900	0	16	0	300	1	300	0	600	3	12	0	12	0	778	0
Tampa	-	-	-	-	600	0	-	-	300	0	600	0	600	1	-	-	-	-	796	0
GEORGIA																				
Atlanta	700	17	700	13	1000	17	1000	8	1025	4	2369	24	3109	32	3200	40	3033	122	1487	6
Augusta	100	3	297	1	300	9	292	11	300	5	-	-	24	3109	32	3200	40	3033	122	1487
Austell	25	2	20	1	-	-	-	-	-	-	-	-	-	-	400	0	-	-	392	0
Chamblee	-	-	-	-	25	0	25	0	25	0	64	2	50	17	-	-	-	-	-	-
Dahlonega	100	245	15	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
East Point	-	-	100	0	100	3	100	5	100	4	350	7	440	137	400	142	-	-	-	-
Gainesville	50	0	51	0	-	-	-	-	100	0	300	1	200	2	-	-	50	0	-	-
Jonesboro	25	0	-	-	-	-	-	-	-	-	-	-	-	-	60	0	15	3	-	-
Savannah	-	-	-	-	300	0	-	-	-	-	-	-	33	0	-	-	-	-	-	-
Savannah Airport (Hunter Field)	25	0	24	1	-	-	-	-	297	0	-	-	12	0	298	0	12	1	800	0
Toccoa	25	0	100	1	92	17	100	21	50	3	100	0	123	2	92	0	-	-	100	0
ILLINOIS																				
Bloomington	-	-	-	-	50	0	-	-	200	1	300	1	-	-	-	-	-	-	395	0
Chicago	10,975	165	9450	164	9500	708	5738	257	7550	170	9200	407	10,000	462	9838	549	9926	330	9980	384
Cicero	200	0	-	-	250	3	300	1	-	-	400	0	800	0	800	5	600	5	400	1
East St. Louis	100	0	275	1	300	2	300	16	599	1	600	10	600	5	800	24	800	1	1234	3
Elgin	-	-	-	-	50	0	-	-	-	-	300	0	-	-	-	-	385	0	388	1
Evanston	-	-	400	0	-	-	-	-	400	0	400	0	800	0	800	16	600	1	400	20
Highland Park	700	22	700	5	500	10	400	63	600	173	1100	5608	-	-	-	-	200	0	-	-
Highwood	100	0	-	-	-	-	100	0	200	1	-	-	-	-	-	-	-	-	-	-
Lake Forest	400	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oak Park	200	0	-	-	250	0	300	1	-	-	300	0	300	1	-	-	600	0	800	0
INDIANA																				
Bedford	25	0	-	-	50	0	-	-	99	0	240	1	-	-	-	-	-	-	-	-
Bluffton	25	0	-	-	-	-	-	-	-	-	-	-	250	0	300	3	-	-	-	-
East Chicago	50	0	300	0	-	-	-	-	-	-	-	-	-	-	300	0	300	1	400	0
Elkhart	200	25	300	21	300	35	415	9	289	6	392	3	299	77	316	5	300	2	-	-
Fort Wayne	200	0	-	-	615	96	555	8	596	4	1236	5	1200	52	1600	105	1600	20	800	18
Hammond	175	1	134	0	299	54	200	24	400	8	324	3	300	0	50	3	400	0	400	0
Indianapolis	400	13	763	3	1000	20	865	32	1135	7	2514	21	2700	160	3280	76	3600	10	3500	12
Logansport	-	-	50	0	300	7	300	7	300	9	317	5	313	13	400	98	400	8	300	1
Muncie	100	0	-	-	50	1	-	-	-	-	195	0	-	-	400	1	-	-	400	0
New Castle	-	-	300	0	-	-	-	-	200	0	200	0	200	2	-	-	-	-	-	-
Richmond	100	2	-	-	300	4	300	17	298	556	327	4	300	7	400	1	-	-	400	0
South Bend	-	-	599	0	-	-	-	-	-	-	1126	0	1200	12	1600	0	1600	8	800	43
Terre Haute	100	1	-	-	300	0	-	-	400	1	430	18	-	-	-	-	-	-	-	-
Warsaw	-	-	200	0	-	-	-	-	100	0	195	2	194	60	300	2	-	-	-	-
Whiting	50	1	157	1	-	-	100	0	400	0	300	1	300	4	250	18	100	1	200	0
IOWA																				
Ft. Madison	125	1	-	-	-	-	-	-	-	-	-	-	-	-	200	0	200	1	-	-
KANSAS																				
Kansas City	200	0	137	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	780	0
KENTUCKY																				
Lexington	-	-	200	0	-	-	-	-	274	0	-	-	-	-	600	0	597	1	391	1
Louisville	-	-	572	0	-	-	-	-	540	1	1223	1	1200	4	1600	13	1566	62	800	10
LOUISIANA																				
New Orleans Airport	12	-	24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAINE																				
Bangor	50	0	-	-	-	-	-	-	-	-	-	-	325	9	400	5	260	3	-	-
Bar Harbor	25	0	-	-	-	-	-	-	-	-	-	-	95	4	-	-	100	0	-	-
Bath	25	0	-	-	-	-	-	-	-	-	-	-	-	-	150	0	200	2	-	-
Brunswick	25	0	-	-	-	-	-	-	-	-	-	-	-	-	175	0	200	1	-	-
Ellsworth	25	0	-	-	-	-	-	-	-	-	-	-	115	0	100	0	100	1	-	-
MARYLAND																				
Bloomington	-	-	10	15	10	11	-	-	9	0	-	-	-	-	-	-	-	-	-	-
Chaptico	-	-	-	-	-	-	-	-	-	-	15	1	-	-	-	-	-	-	-	-
Leonardtown	22	0	-	-	109	0	85	1	131	7	100	7	225	4	-	1	192	0	10	0
Mechanicsville	40	92	40	8	44	4	41	7	68	5	-	-	-	-	-	50	2	10	0	0
Oakland	30	1	30	1	30	2	30	7	-	-	-	-	-	-	25	0	-	30	0	0
MICHIGAN																				
Birmingham	-	-	-	-	200	0	200	0	161	5	200	2	200	0	200	6	-	-	-	-
Dearborn	-	-	200	0	300	2	300	2	366	1	400	5	400	0	400	5	780	1	796	6
Detroit	1900	12	1100	24	4000	5	3580	86	5056	32	7000	225	6000	252	5250	115	5313	82	5045	67
Ecorse	200	0	200	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flint	400	0	700	0	700	11	704	37	197	80	-	-	-	-	-	-	-	-	-	-
Grand Rapids	1500	92	278	166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grosse Pointe Farms	-	-	-	-	-	-	-	-	-	-	100	0	200	0	-	-	-	-	-	-
Highland Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	0	200	2	200	0
Kalamazoo	500	10	112	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lincoln Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Melvindale	100	1	100	1	100	0	100	1	100	4	100	2	100	1	200	5	-	-	-	-
Muskegon	100	1	110	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pontiac	-	-	200	0	-	-	-	-	-	-	179	0	-	-	200	0	50	1	398	0
River Rouge	285	15	300	278	200	42	200	24	100	1	-	-	-	-	-	-	200	0	-	-
Wyandotte	25	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MISSOURI																				
Bridgeton (St. Louis Lambert Field)	26	1	15	0	20	9	19	0	77	1	108	3	51	1	-	-	-	-	-	-
Kansas City Airport	200	0	475	0	10	1	12	0	12	0	-	-	-	-	-	-	-	-	-	-
St. Louis	3576	51	3516	7	4792	4	2379	14	7921	6	10,168	15	12,299	30	12,230	26	12,500	27	12,557	1



## JAPANESE BEETLE TRAPPING

1937 - 1946

Location	1946		1945		1944		1943		1942		1941		1940		1939		1938		1937	
	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.
NEW YORK																				
Albion	25	0	60	0	-	-	-	-	-	-	30	0	-	-	-	-	100	1	-	-
Alexandria Bay	-	-	-	-	25	-	-	-	99	0	100	1	-	-	-	-	-	-	-	-
Avon	-	-	-	-	80	-	97	37	100	196	25	18	-	-	-	-	-	-	-	-
Batavia	20	0	206	2	100	0	-	-	100	0	-	-	300	1	400	1	-	-	200	0
Bath	25	0	-	-	-	-	-	-	100	0	-	-	-	-	-	-	100	0	-	-
Canandaigua	25	0	-	-	200	4	298	4	200	0	-	-	30	0	200	5	100	0	35	0
Chestertown	25	0	-	-	50	2	-	-	-	-	-	-	200	2	-	-	100	4	-	-
Dansville	-	-	50	0	-	-	200	0	194	0	200	1	300	6	150	116	100	10	-	-
Dundee	25	0	-	-	-	-	-	-	-	-	-	-	30	0	20	1	40	0	-	-
Dunkirk	-	-	200	0	100	1	200	11	300	3	-	-	-	-	-	-	197	1	-	-
Fairport	-	-	60	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Falconer	25	93	50	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gardenville	25	0	15	1	-	-	-	-	-	-	-	-	-	-	15	0	25	0	-	-
Geneva	25	-	100	94	200	197	196	37	200	9	199	4	200	5	300	15	200	2	25	0
Hammondsport	25	2	-	-	-	-	-	-	97	0	-	-	-	-	-	-	-	-	-	-
Jamestown	-	-	400	7	400	31	500	154	597	98	-	-	-	-	40	0	21	1	800	0
Keeseeville	-	-	20	0	-	-	100	0	101	1	-	-	-	-	-	-	-	-	37	0
Lake George	22	0	-	-	100	1	-	-	79	0	-	-	-	-	-	-	-	-	-	-
Lowville	-	-	40	0	-	-	100	0	77	1	-	-	-	-	-	-	99	0	-	-
Lyons	-	-	-	-	50	0	200	1	-	-	-	-	40	0	-	-	-	-	-	-
Malone	25	0	-	-	50	0	192	0	200	1	200	1	12	0	4	0	-	-	200	0
Massena	-	-	-	-	-	-	-	-	-	-	200	0	-	-	-	-	100	0	-	-
Mayville	-	-	15	0	100	2	300	2	-	-	200	0	-	-	30	1	30	0	-	-
Medina	-	-	60	0	-	-	-	-	-	-	-	-	-	-	-	-	150	1	-	-
Mexico	25	6	15	5	-	-	-	-	-	-	200	0	-	-	-	-	-	-	-	-
Newark	50	16	-	-	200	7	200	1	300	65	299	44	200	-	-	-	-	-	-	-
Niagara Falls	100	3	-	-	394	20	500	71	600	216	320	510	200	21	200	2	198	1	200	0
North Tonawanda	25	3	-	-	200	22	279	7	300	4	-	-	-	-	-	-	-	-	790	13
Ogdensburg	-	-	-	-	100	0	200	315	198	14	300	15	-	-	-	-	-	-	190	0
Palmyra	-	-	-	-	107	0	391	0	100	0	30	1	-	-	-	-	-	-	200	0
Penn Yan	25	0	-	-	-	-	99	0	100	3	-	-	40	0	70	1	100	0	-	-
Phoenix	25	325	20	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Plattsburg	50	4	200	0	300	0	282	5	242	14	301	4	-	-	-	-	-	-	207	0
Port Henry	-	-	25	0	100	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rouses Point	25	4	-	-	-	-	100	0	100	5	-	-	-	-	-	-	-	-	40	0
Schroon Lake	25	0	-	-	50	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Seneca Falls	25	0	-	-	-	-	-	-	200	1	-	-	55	0	60	1	100	0	-	-
Silver Creek	25	0	100	2	100	7	100	60	100	104	-	-	-	-	-	-	-	-	50	0
Spring Lake	25	0	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ticonderoga	-	-	40	0	100	2	-	-	195	0	-	-	-	-	-	-	-	-	-	-
Waterloo	50	219	115	46	200	18	197	171	100	33	-	-	30	0	-	-	-	-	-	-
Westfield	25	0	50	2	100	2	192	27	-	-	-	-	-	-	200	0	-	-	50	0
Williamson	25	17	-	-	100	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA																				
Archdale	25	38	10	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asheboro	25	0	70	1	-	-	-	-	-	-	-	-	100	0	-	-	-	-	-	-
Asheville	-	-	-	-	1000	336128	38	75503	42	89245	910	90419	900	19322	400	1073	12	0	-	-
Azalea	-	-	-	-	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black Mountain	-	-	25	0	24	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Blowing Rock	57	22235	487	42271	453	138945	100	17405	-	-	-	-	-	-	-	-	-	-	-	-
Boone	25	7	-	-	100	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Burgaw	25	12	25	5	24	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Burlington	50	929	188	0	-	-	100	0	200	3	300	62	300	34	200	5	-	-	193	0
Calypso	25	1	23	1	94	3	-	-	100	0	-	-	-	-	-	-	-	-	-	-
Candler	25	4	275	3	-	-	500	5	594	25	600	12	600	37	888	36	-	-	788	13
Canton	150	0	25	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Charlotte	25	18	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Charlotte Airport	25	2	-	-	24	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clinton	25	2	-	-	25	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Columbia	81	293	-	-	50	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dunn	-	-	275	47	-	-	300	2	600	5	598	27	600	58	800	29	800	15	394	6
Durham	10	9	25	32	50	11	100	127	100	83	238	349	200	985	200	645	-	-	189	194
East Flat Rock	50	4	-	-	196	72	100	38	199	31	300	53	200	29	350	46	200	11	197	1
East Spencer	40	1	-	-	50	6	184	0	280	7	-	-	-	-	-	-	196	0	-	-
Elizabeth City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fayetteville	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flat Rock	100	4	-	-	291	60	300	58	200	106	-	-	-	-	-	-	-	-	-	-
*Fletcher	100	4	299	0	100	0	100	0	200	3	200	2	200	2	197	3	295	0	-	-
Gastonia	150	9	-	-	389	3	500	19	600	19	900	98	900	10	1000	334	-	-	384	370
Goldstboro	-	-	-	-	100	1	100	4	200	3	-	-	-	-	97	1	100	5	-	-
Greensboro	121	1612	-	-	568	20000	195	785	100	1718	-	5	100	0	-	-	-	-	-	-
Hamlet	50	0	-	-	100	2	300	9	398	18	597	84	600	77	800	37	600	34	400	3
Hendersonville	100	168	65	1	199	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hickory	25	0	15	3	50	0	-	-	-	-	-	-	-	-	10	0	200	1	-	-
High Point	25	0																		



1937 - 1946

\*First Record

(Continued on next page)



## JAPANESE BEETLE TRAPPING

1937 - 1946

Location	1946		1945		1944		1943		1942		1941		1940		1939		1938		1937	
	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.	Traps	J.B.
<b>VIRGINIA (continued)</b>																				
New Market	-	-	-	-	25	0	-	-	45	2	14	1	20	0	-	-	20	3	-	-
Orange	25	4	-	-	-	-	-	-	-	-	8	0	-	-	25	0	30	0	30	0
*Port Royal	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rappahannock Academy	25	1	-	-	-	-	-	-	-	-	-	-	-	-	18	1	-	-	-	-
Rocky Mount	25	-	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Salem	-	-	-	-	50	0	-	-	87	3	-	-	-	-	-	-	-	-	-	-
Shenandoah	-	-	150	1656	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Hill	25	0	-	-	-	-	-	-	92	0	10	0	30	0	-	-	-	-	20	1
Staunton	-	-	-	-	100	0	200	6	-	-	24	0	-	-	-	-	198	7	200	2
Stephens City	-	-	15	0	-	-	-	-	-	-	5	0	-	-	10	0	10	0	-	-
Strasburg	-	-	20	0	-	-	-	-	-	-	13	0	25	2	-	-	10	0	-	-
Timberville	25	0	-	-	-	-	-	-	-	-	-	-	10	1	-	-	9	0	-	-
Unionville	25	0	-	-	-	-	-	-	-	-	-	-	-	-	20	1	-	-	-	-
Warsaw	25	0	-	-	100	2	-	-	-	-	-	-	-	-	20	0	15	1	10	0
Waynesboro	-	-	-	-	100	0	200	10	-	-	-	-	-	-	-	-	-	-	-	-
Williamsburg	25	0	-	-	100	3	100	1	160	7	23	0	-	-	-	-	40	0	35	0
Woodstock	-	-	-	-	50	0	100	19	97	67	9	4	25	5	-	-	30	0	-	-
Wytheville	-	-	45	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Yorktown	25	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>WEST VIRGINIA</b>																				
Alderson	75	3348	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beckley	25	0	-	-	-	-	100	10	-	-	-	-	-	-	-	-	-	-	-	-
Bluefield	25	0	-	-	-	-	100	9	-	-	-	-	-	-	-	-	-	-	-	-
Elkins	25	12	-	-	-	-	-	-	99	3	-	-	-	-	70	2	-	-	125	0
Gassaway	25	10	20	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Huntington	25	0	298	5	-	-	200	4	-	-	-	-	-	-	-	-	593	0	796	2
Pennsboro	25	1	-	-	-	-	-	-	98	9	19	4	-	-	-	-	-	-	-	-
*Petersburg	25	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Romney	25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
*Ronceverte	25	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Albans	-	-	40	0	100	0	-	-	23	1	-	-	-	-	-	-	-	-	-	-
St. Marys	25	2	-	-	-	-	100	8	-	-	30	0	25	1	-	-	40	0	-	-

\*First Record



## COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL

## AT ISOLATED INFESTATIONS

1944 - 1946

State and City	Japanese Beetles Trapped 1944 (Number)	Soil Treatments Fall 1944 and Spring 1945 (Acres)	Japanese Beetles Trapped 1945 (Number)	Soil Treatments Fall 1945 and Spring 1946 (Acres)	Japanese Beetles Trapped 1946 (Number)	Soil Treatments Fall 1946 or Proposed for Spring 1947 (Acres)
<b>FLORIDA</b>						
Jacksonville	5	7.5	0	-	-	-
<b>GEORGIA</b>						
Atlanta	17	1.35	13	4.6	17	-
Dahlonega	-	-	37	2.7	245	11.7
Toccoa	17	1.35	1	-	0	-
<b>ILLINOIS</b>						
Chicago	708	223.25	164	62.45	165	61.6
Highland Park	10	-	5	-	22	10.3
<b>INDIANA</b>						
Elkhart	35	37.6	21	19.2	25	15.35
Fort Wayne	96	71.55	-	-	0	-
Hammond	54	56.15	0	-	1	-
Indianapolis	20	25.4	3	-	13	6.
Logansport	7	4.3	0	-	-	-
<b>MICHIGAN</b>						
Detroit	95	48.3	24	25.05	12	32.05
Flint	11	8.3	0	-	0	-
Grand Rapids	-	-	166	80.0	92	77.65
Kalamazoo	-	-	61	29.9	10	30.2
Melvindale	0	-	7	-	1	2.
Muskegon	-	-	1	10.1	1	-
River Rouge	42	32.6	278	32.05	15	22.8
Wyandotte	-	-	-	-	1	6.
<b>MISSOURI</b>						
Bridgeton (St. Louis Lambert Field)	-	-	-	-	1	0.9
Kansas City (Airport)	1	1.58	-	-	0	-
St. Louis	4	1.91	7	7.7	51	37.05
<b>NEW YORK</b>						
Fairport	-	-	54	7.0	-	-
Falconer	-	-	10	-	93	7. (T)
Geneva	197	44.0	94	25.65	-	-
Jamestown	31	-	7	8.3	-	-
Newark	7	11.33	-	-	16	5.5
Niagara Falls	20	-	-	21.5	3	-
Williamson	31	10.5	-	-	17	9.3
<b>NORTH CAROLINA</b>						
Archdale	-	-	6	-	38	12.0 (T)
Burgaw	22	8.8	5	-	12	-
Calypso	1	-	-	-	929	35.3
Dunn	222	35.3	-	-	293	40.2
Durham	-	-	47	13.2	-	-
Elizabeth City	72	3.7	-	-	4	-
Gastonia	60	15.4	-	-	4	-
High Point	26	10.6	-	-	168	57.0 (T)
Lenoir	4	3.0	-	-	1	-
Lexington	2	1.2	-	-	0	-
Mount Olive	2	-	4	-	51	23.0
Raleigh	35	8.1	5	-	7	-
Rocky Mount	-	-	5	2.4	9	-
Salisbury	88	9.3	29	13.0	-	-
Spencer	63	6.0	41	6.9	-	-
Spruce Pine	6	2.3	-	-	0	-
Warsaw	10	4.3	-	-	3	-
Wilson	3	-	8	2.7	-	-
Winston-Salem	-	-	7	6.4	-	-
<b>OHIO</b>						
Ashland	23	21.7	1	-	0	-
Bellevue	39	32.7	84	28.5	-	-
Belpre	82	31.12	32	-	11	-
Cincinnati (Lunken Airport)	5	10.2	0	-	-	-
Crestline	27	52.7	11	7.7	-	-
Elyria	7	14.0	8	20.4	-	-
Gallipolis	12	23.18	40	8.7	-	-
Geneva	8	5.8	54	7.9	7	-
Lorain	9	17.5	2	2.1	-	-
Loudonville	-	-	3	3.15	-	-
Marion	17	34.1	0	-	-	-
New Concord	30	18.0	26	11.1	-	-
Painesville (Lake County)	7	12.7	11	12.0	32	20.6
South Zanesville	4	-	4	14.4	-	-
Van Wert	1	4.35	0	-	-	-
Willard	3	12.63	5	16.6	-	-
<b>TENNESSEE</b>						
Mountain City	6	1.75	-	-	2	-
<b>VIRGINIA</b>						
Alta Vista	-	-	9	7.7	-	-
Clifton Forge	-	-	16	6.0	-	-
Covington	-	-	83	13.0	-	9.2
Crozet	-	-	1	-	9	5.25
Wytheville	-	-	4	4.2	-	-

## STATE SUMMARY OF SOIL TREATMENTS

State	Fall 1944 and Spring 1945	Fall 1945 and Spring 1946	Fall 1946 or Planned for Spring 1947
Florida	7.5	-	-
Georgia	2.7	7.3	11.7
Illinois	223.25	62.45	71.9
Indiana	193.00	19.2	21.35
Michigan	89.2	177.1	170.7
Missouri	3.49	7.7	37.95
New York	65.83	62.45	21.8
North Carolina	108.0	44.6	167.5
Ohio	290.68	132.55	20.6
Tennessee	1.75	-	-
Virginia	-	30.9	14.45
	985.40	544.25	537.95

\* First Record  
 (T) Soil treating planned for Spring 1947; all other soil treatments listed have been completed.



